

NDSU/UGPTI UPDATE ON TRAINING

2014 NDDOT Construction Conference

MISSION

Providing innovative transportation research, education, and outreach that promote the safe and efficient movement of people and goods.

- **Research** — Conducting applied and advanced research in highway, transit, rail, air, and waterway transportation that addresses the critical issues of the state, region, and nation.
- **Education** — Educating the transportation workforce of tomorrow through multidisciplinary curricula that focus on transportation economics, management, infrastructure planning, mobility, and supply chain logistics.
- **Outreach** — Improving the skills and knowledge of the existing workforce through training, technical assistance, and the transfer of research results to practitioners.

Engineering & Technical Training



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ENGINEERING & TECHNICAL TRAINING PROGRAM (ETTP)

October 2012 – October 2014

Focus areas

Monthly & Quarterly Meetings

Specific Exploratory Areas

- Work Zone Safety & Mobility

- Erosion & Sediment Control

- Bridge Construction Inspection

- Construction Project Management



WORK ZONE SAFETY & MOBILITY

Reviewing Chapter 4,
Training
ATSSA Training Completed

TCT

TCS

TCDS

In progress:

Online modules

- WZS&M Team:
 - Phil Murdoff, NDDOT
 - Mike Kisse, NDDOT
 - Shawn Kuntz, NDDOT
 - Doug Fercho, NDDOT
 - Doug Shumaker, NDDOT
 - Karin Mongeon, NDDOT
 - David Ferrell, FHWA
 - Tim Horner, UGPTI
 - Ken Kadrmas, UGPTI
 - Dale Heglund, UGPTI
 - Chris Padilla, UGPTI

EROSION & SEDIMENT CONTROL

Needs assessment with NDDOT

Outcome:

Decision Document, February 2014

Two training areas:

Construction

Design

NDSU/UGPTI will lead Develop & Delivery

NDSU DOTSC and CM&E

NDDOT

NDoH

AGC

New development

Storm Water Training Module (online, self-paced)



BRIDGE CONSTRUCTION INSPECTION

Future meetings

SME

NDDOT Bridge Division

NDSU/UGPTI

Discuss needs and develop proposal



CONSTRUCTION PROJECT MANAGEMENT

Decision Document, August 2013
Contracted with ESI, International
and NDDOT SMEs:

Lance Bargmann

Jason Fischer

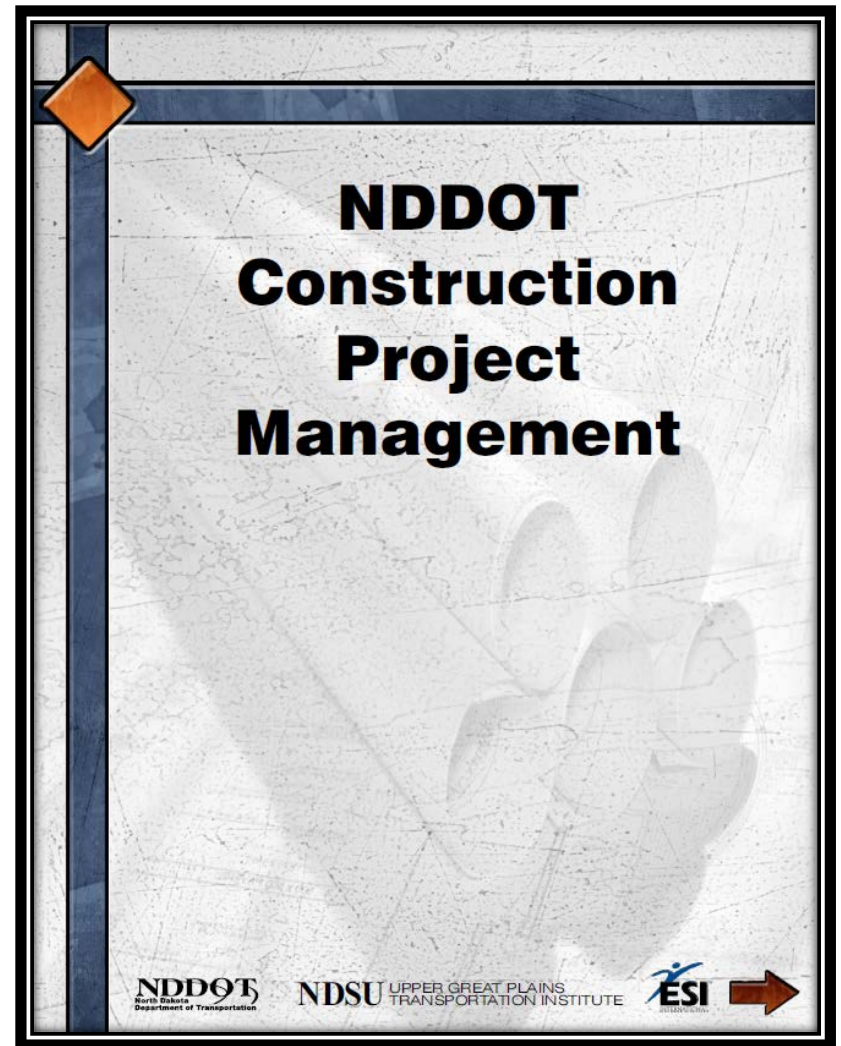
Bernie Southam

Justin Oss

Pilot held in January 2014

Completed in February 2014

DOTSC Administrates



DOT Support Center (DOTSC)



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DOT SUPPORT CENTER

Engineering Student Design

IT Student Support

Engineering Support

Engineering Training Support and Outreach

- Construction Project Management Course
- Introduction to Highway Construction Engineers & Techs
- Introduction to Highway Construction Trans Techs
- Online training modules such as CARS

CONSTRUCTION PROJECT MANAGEMENT (DELIVERY)

Purpose

- To deliver uniform training to reduce NDDOT staff support of consultants, reduce errors, and increase the efficiency and effectiveness of construction program delivery.

Target Audience

- NDDOT, Consultants, and Local staff assigned as Managers of NDDOT Construction Projects

CONSTRUCTION PROJECT MANAGEMENT (DELIVERY)

Certification

- Will be issued upon successful completion of course
- NDDOT considering certification requirements beginning spring 2015
- 3 year recertification

CONSTRUCTION PROJECT MANAGEMENT (DELIVERY)

Proposed Dates & Locations

- April 8 and 9, 2014 – Bismarck Ramada Hotel
- April 22 and 23, 2014 – Bismarck Ramada Hotel
- May 6 and 7, 2014 – Bismarck Ramada Hotel
- April 2 and 3, 2014 – Fargo Expressway Suites
- April 29 and 30, 2014 – Fargo Wingate by Wyndam

Each class capped at 35 participants

CONSTRUCTION PROJECT MANAGEMENT (DELIVERY)

Instructors

- Brian Fuder – UGPTI Engineering Training Manager
 - 10 years as Associate Professor of Land Surveying and Civil Engineering Technology at NDSCS
 - Prior experience at MNDOT
- NDDOT Construction Staff

Registration

- Will be available mid-late March
- Transportation Learning Network/LTAP Learning Management System. <http://tln.learnflex.net>

INTRODUCTION TO HIGHWAY CONSTRUCTION (ENGINEERS & TECHS)

Target Audience

- Newly Graduated Engineers and Technicians
- Minimal to no DOT construction experience

Proposed Dates & Locations

- May 19 – 21 2014
- Jamestown, ND

INTRODUCTION TO HIGHWAY CONSTRUCTION (TRANS TECHS)

Target Audience

- NDDOT Maintenance Transportation Technicians
- Highway Maintenance experience with minimal construction experience

Proposed Dates & Locations

- April 28 – May 2, 2014
- Bismarck, ND

DOTSC ON-LINE TRAINING MODULES AND VIDEOS

CARS

- Self paced with knowledge checks

YouTube Videos

- Videos on test procedures for Soils and Aggregates
- Wash test, Angularity, Lightweight, Gradation, Sand Cone, Speedy, Proctor, Balloon, etc..

Links on DOTSC website at: <http://www.ugpti.org/dotsc/>



Thank you!

2014 NDDOT Construction Conference

Brad Wentz and Chris Padilla
Upper Great Plains Transportation Institute
North Dakota State University